




## GENERAL INFORMATION

## Federico Navarria

 Centro di Riferimento Oncologico di Aviano (CRO) IRCCS via F.Gallini 2, 33081 Aviano (PN)  
 +39 0434 659124  
 federico.navarria@cro.it

Gender M | Date of birth 17/03/1986 | Nationality Italian

## OCCUPATION

## Radiation Oncologist

## EXPERIENCE

From 05/12/2017 ongoing

## MD Radiation Oncologist

Radiation Oncology Dept, Centro di Riferimento Oncologico, C.R.O. – I.R.C.C.S., Aviano, Italy

Outpatient activity, clinical-therapeutic management (external beam radiotherapy, intraoperative radiotherapy, brachytherapy, chemotherapy, combination therapies) of follow-up patients, clinical and translational research.

Focus: Soft tissue and bone sarcomas; Rare tumors;  
Gastrointestinal Neoplasms; Gynecological neoplasms

From 08/08/2013 to  
08/08/2017

Radiation Oncologist Resident  
Padua University, Italy

From 03/04/2017 to  
12/05/2017

Internship at *Francis H. Burr Proton Therapy Center*, Radiation Oncology  
Department, Massachusetts General Hospital (MGH) Boston

Research projects on review of potential toxicities associated with escalated  
radiation doses with Protons or IMRT in Retroperitoneal Sarcoma patients,  
Scientific Director: Thomas DeLaney MD

## EDUCATION

09/08/2017

Radiation Oncology Specialist Graduation 110/110 cum laude  
Padua University, Italy

23/10/2012 MD Graduation 110/110 cum laude

Trieste University, Italy

Experience in conventional and advanced radiotherapy techniques (IMRT, VMAT, IMRT-Tomotherapy, SBRT, IGRT, IORT, endocavitary and interstitial brachytherapy).

Good knowledge of hypofractionated radiotherapy regimens and IMRT with "Simultaneous Integrated boost".

Experience in the management of cancer patients admitted to Day Hospital.

Experience in the management of acute and chronic radiotherapy toxicity and in the field of integrated radio-chemotherapy treatments.

Experience in the integration of radiotherapy with new molecular target drugs.

Experience in the management of patients with metastatic disease, in the context of pain therapy.

Experience in the management of concomitant chemotherapy regimens with radiotherapy.

Competence in methodology in the field of research and scientific production.

#### Publications

**1** Roberto Innocente , **Federico Navarra** , Roberto Petri , Elisa Palazzari , Massimo Vecchiato , Jerry Polesel , Antonio Ziccarelli , Antonio Martino , Paolo Ubiali , Dino Tonin , Andrea Lauretta , Claudio Belluco , Luisa Foltran , Angela Buonadonna , Arben Lleshi , Carlotta Benedetta Colombo , Loredana Barresi , Marco Gigante , Giovanni Franchin , Antonino De Paoli

Feasibility and Oncological Outcome of Preoperative Chemoradiation With IMRT Dose Intensification for Locally Advanced Esophageal and Gastroesophageal Cancer  
Front Oncol 2021 Feb 18;11:626275. doi: 10.3389/fonc.2021.626275. eCollection 2021.

**2** Tseng WW, Barretta F, Conti L, Grignani G, Tolomeo F, Albertsmeier M, Angele MK, Rutkowski P, Skoczylas J, De Paoli A, **Navarra F**, Raut CP, Fairweather M, Farma JM, Nessim C, Goel N, Grignol VP, Ford SJ, Cardona K, Subhawong T, Tattersall HL, Lee RM, Hu JS, von Mehren M, Sanfilippo R, Gronchi A.

Defining the role of neoadjuvant systemic therapy in high-risk retroperitoneal sarcoma: A multi-institutional study from the Transatlantic Australasian Retroperitoneal Sarcoma Working Group.

Cancer. 2021 Mar 1;127(5):729-738. doi: 10.1002/cncr.33323. Epub 2020 Nov 18. PMID: 33206381

**3** Radaelli S, Fossati P, Stacchiotti S, Akiyama T, Asencio JM, Bandiera S, Boglione A, Boland P, Bolle S, Bruland Ø, Brunello A, Bruzzi P, Campanacci D, Cananzi F, Capanna R, Casadei R, Cordoba A, Court C, Dei Tos AP, DeLaney TF, De Paoli A, De Pas TM, Desai A, Di Brina L, Donati DM, Fabbri N, Fiore MR, Frezza A, Gambarotti M, Gasbarrini A, Georg P, Grignani G, Hindi N, Hug EB, Jones R, Kawai A, Krol AD, Le Grange F, Luzzati A, Marquina G, Martin-Benlloch JA, Mazzocco K, **Navarra F**, Navarra P, Parchi PD, Patel S, Pennacchioli E, Petrongari MG, Picci P, Pollock R, Porcu L, Quagliuolo V, Sangalli C, Scheipl S, Scotto GM, Spalek M, Steinmeier T, Timmermann B, Trama A, Uhl M, Valverde C, Varga PP, Verges R, Weber DC, Zoccali C, Casali PG, Sommer J, Gronchi A.

The sacral chordoma margin.

Eur J Surg Oncol. 2020 Aug;46(8):1415-1422. doi: 10.1016/j.ejso.2020.04.028. Epub 2020 Apr 27. PMID: 32402509 Review

**4** Cecchin E, De Mattia E, Dreussi E, Montico M, Palazzari E, **Navarra F**, Bergamo F, Belluco C, Quartuccio L, De Vita S, Canzonieri V, Gagno S, Zanusso C, Buonadonna A, Pucciarelli S, De Paoli A, Toffoli G.

Immunogenetic markers in IL17F predict the risk of metastases spread and overall survival in rectal cancer patients treated with neoadjuvant chemoradiotherapy.

Radiother Oncol. 2020 Aug;149:30-37. doi: 10.1016/j.radonc.2020.04.055. Epub 2020 May 5. PMID: 32387487

**5** Muraro E, Vaccher E, Furlan C, Fratta E, Fanetti G, Fae' DA, Martorelli D, Cangemi M, Polesel J, **Navarra F**, Gobitti C, Comaro E, Scaini C, Pratesi C, Zanussi S, Lupato V, Grandi G, Giacomarra V, Sulfaro S, Barzan L, Dolcetti R, Steffan A, Canzonieri V, Franchin G. Predictive Value of CD8 Expression and FoxP3 Methylation in Nasopharyngeal Carcinoma Patients Treated with Chemoradiotherapy in a Non-endemic Area  
Pathol Oncol Res 2020 Oct;26(4):2459-2467. doi: 10.1007/s12253-020-00859-3. Epub 2020 Jun 21

**6** Avanzo M, Dassi A, Chandra Acharya P, Chiovati P, Pirrone G, Avigo C, Barresi L, Dang Quoc S, Fiagbedzi E, **Navarra F**, Palazzari E, Bertola G, De Paoli A, Stancanello J, Sartor G. Electron radiotherapy (IOERT) for applications outside of the breast: Dosimetry and influence of tissue inhomogeneities.  
Phys Med. 2020 Jan;69:82-89. doi: 10.1016/j.ejmp.2019.12.003. Epub 2019 Dec 13. PMID: 31841774

**7** Valentini V, Gambacorta MA, Cellini F, Aristei C, Coco C, Barbaro B, Alfieri S, D'Ugo D, Persiani R, Deodato F, Crucitti A, Lupattelli M, Mantello G, **Navarra F**, Belluco C, Buonadonna A, Boso C, Lonardi S, Caravatta L, Barba MC, Vecchio FM, Maranzano E, Genovesi D, Doglietto GB, Morganti AG, La Torre G, Pucciarelli S, De Paoli A. The INTERACT Trial: Long-term results of a randomised trial on preoperative capecitabine-based radiochemotherapy intensified by concomitant boost or oxaliplatin, for cT2 (distal)-cT3 rectal cancer.  
Radiother Oncol. 2019 May;134:110-118. doi: 10.1016/j.radonc.2018.11.023. Epub 2019 Feb 7. PMID: 31005204 Clinical Trial

**8** Caravatta L, Cellini F, Simoni N, Rosa C, Niespolo RM, Lupattelli M, Picardi V, Macchia G, Sainato A, Mantello G, Dionisi F, Rosetto ME, Fusco V, **Navarra F**, De Paoli A, Guido A, Vecchi C, Basilico R, Cianci R, Delli Pizzi A, Di Nicola M, Mattiucci GC, Valentini V, Morganti AG, Genovesi D.  
Magnetic resonance imaging (MRI) compared with computed tomography (CT) for interobserver agreement of gross tumor volume delineation in pancreatic cancer: a multi-institutional contouring study on behalf of the AIRO group for gastrointestinal cancers.  
Acta Oncol. 2019 Apr;58(4):439-447. doi: 10.1080/0284186X.2018.1546899. Epub 2019 Jan 11. PMID: 3063287

**9** Polesel J, Lupato V, Collarile P, Vaccher E, Fanetti G, Giacomarra V, Palazzari E, Furlan C, Matrone F, **Navarra F**, Gobitti C, Minatel E, Serraino D, Birri S, Franchin G.  
Direct health-care cost of head and neck cancers: a population-based study in north-eastern Italy  
Med Oncol. 2019 Feb 28;36(4):31. doi: 10.1007/s12032-019-1256-2.

**10 Navarra F**, Gigante M, Mascarin M, Italia F, Barresi L, Barzan L, Bertola G, Buonadonna A, Canzonieri V, De Paoli A.  
Multidisciplinary treatment approach for primary thyroid spindle cell sarcoma: A case report  
Cancer Radiother. 2019 Feb;23(1):46-49. doi: 10.1016/j.canrad.2018.05.004. Epub 2019 Jan 12.

**11** Parisi G, Mazzola R, Ciammella P, Timon G, Fozza A, Franceschini D, **Navarra F**, Bruni A, Perna M, Giaj-Levra N, Alongi F, Scotti V, Trovo M.  
Hypofractionated radiation therapy in the management of locally advanced NSCLC: a narrative review of the literature on behalf of the Italian Association of Radiation Oncology (AIRO)-Lung Working Group  
Radiol Med. 2019 Feb;124(2):136-144. doi: 10.1007/s11547-018-0950-z. Epub 2018 Oct 27.

**12** Roeder F, de Paoli A, Saleh-Ebrahimi L, Alldinger I, Bertola G, Boz G, **Navarra F**, Cuervo M, Uhl M, Alvarez A, Buechler M, Lehner B, Debus J, Calvo FA, Krempien R.  
Intraoperative Electron Radiation Therapy Combined with External Beam Radiation Therapy after Gross Total Resection in Extremity Soft Tissue Sarcoma: A European Pooled Analysis.  
Ann Surg Oncol. 2018 Dec;25(13):3833-3842. doi: 10.1245/s10434-018-6787-9. Epub 2018 Oct 1.

**13** Gambacorta MA, De Paoli A, Lupattelli M, Chiloire G, Solazzo AP, Barbaro B, Alfieri S, Vecchio FM, Lenkowicz J, **Navarra F**, Palazzari E, Bertola G, Frattegiani A, Minsky B, Valentini V.  
Phase I and II trial on infusional 5-fluorouracil and gefitinib in combination with preoperative

radiotherapy in rectal cancer: 10-years median follow-up.  
Clin Transl Radiat Oncol. 2018 Mar 17;10:23-28

**14** De Sanctis R, Giordano L, Colombo C, De Paoli A, Navarra P, Sangalli C, Buonadonna A, Sanfilippo R, Bertola G, Fiore M, Marrari A, **Navarra F**, Bertuzzi A, Casali PG, Basso S, Santoro A, Quagliuolo V, Gronchi A. Long-term Follow-up and Post-relapse Outcome of Patients with Localized Retroperitoneal Sarcoma Treated in the Italian Sarcoma Group-Soft Tissue Sarcoma (ISG-STs) Protocol 0303.  
Ann Surg Oncol. 2017 Dec;24(13):3872-3879

**15** Lupattelli M, Matrone F, Gambacorta MA, Osti M, Macchia G, Palazzari E, Nicosia L, **Navarra F**, Chiloiro G, Valentini V, Aristei C, De Paoli A.  
Preoperative intensity-modulated radiotherapy with a simultaneous integrated boost combined with Capecitabine in locally advanced rectal cancer: short-term results of a multicentric study.  
Radiat Oncol. 2017 Aug 22;12(1):139

**16** Polesel J, Furlan C, Birri S, Giacomarra V, Vaccher E, Grando G, Gobitti C, **Navarra F**, Schioppa O, Minatel E, Bidoli E, Barzan L, Franchin G.  
The impact of time to treatment initiation on survival from head and neck cancer in north-eastern Italy.  
Oral Oncol. 2017 Apr;67:175-182.

Chapter's Books

**Chapter 10. The Role of Radiation Therapy in the Treatment of Retroperitoneal Sarcomas.**

Antonino De Paoli, **Federico Navarra**, Elisa Palazzari, Piera Navarra, and Claudia Sangalli. V. Quagliuolo, A. Gronchi (Eds), Current Treatment of Retroperitoneal Sarcomas, Updates in Surgery DOI: 10.1007/978-88-470-3980-3\_10, © Springer-Verlag Italia 2019

**Chapter 7: "New Agents in the treatment of Advanced Gastric Cancer: Targeted Therapy and Immunotherapy"**

**Chapter 8: "Combined-Modality Treatment for Locally Advanced Gastric Cancer: Current Evidences and New Perspectives"**

**Chapter 9: "Surgical Strategies in Gastric Cancer"**

Vincenzo Canzonieri, Antonio Giordano (Eds), Gastric Cancer in the Precision Medicine Era: Diagnosis and Therapy (978-3-030-04860-0), Springer Nature May 2019

Courses

2° Corso residenziale teorico-pratico di Radioterapia Stereotassica Ablativa (SABR) Linac-based. 30 novembre-2 dicembre 2016. Negrar (VR).

University Post-graduated Course-Clinical Oncology: Sarcomas. European School of Oncology ESO, Università degli Studi di Milano. 22-26/01/2018. Milano

Multidisciplinary Management of Soft Tissue Sarcoma: Lessons From a Center of Excellence. 21, 22 and 23 November 2018 at Gustave Roussy, Villejuif, France

Scientific Groups and Associations

Member of Italian Sarcoma Group (ISG)  
Member of Italian Association of Radiation Oncology (AIRO)  
Member of ESTRO  
Member of AIRO Study Group for IORT

PERSONAL SKILLS

Mother language Italian

Other languages	UNDERSTANDING		SPEAKING		WRITING
	Listening	Writing			
English	B2	B2		B2	B2

Communication Good communication skills with patients and colleagues

Aviano, 01/12/2021

Federico Navarra